

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-022785

(43)Date of publication of application : 23.01.1996

(51)Int.Cl.

H01J 31/12

H01J 9/39

H01J 29/94

H01J 31/15

(21)Application number : 06-155796

(71)Applicant : FUJITSU LTD

(22)Date of filing : 07.07.1994

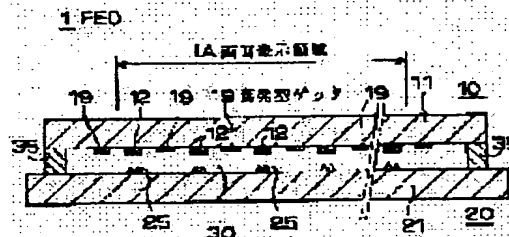
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## (54) FLAT TYPE DISPLAY DEVICE AND ITS MANUFACTURE

## (57)Abstract:

**PURPOSE:** To maintain an ultra-high vacuum condition by restraining gas diffusion, and stabilize display by arranging an evaporation type getter exposed in a vacuum clearance between two panels on an inner wall surface in an image screen display area in which a field emission type negative electrode is arranged.

**CONSTITUTION:** In an image screen display area 1A being a screen of matrix display, an interval 30 between a front side panel 10 having a fluorescent screen 12 on an inside surface and a back side panel having emitters 25 on an inside surface is set in about 100  $\mu$ m, and an ultra-high vacuum is kept. A belt-like vaporation type getter 19 is uniformly arranged over the whole area 1A between the panel 10 and the fluorescent screen 12. The getter 19 is composed of a barium thin film or the like formed by a mask evaporation method, and a thickness is about 1000 $\text{\AA}$ , and is sufficiently smaller than the clearance 30. Therefore, speedy gettering is performed to blowoff of gas in the area 1A. The getter 19 may be arranged on both front and back sides in the area 1A. The getter 19 is evaporated in a condition of being held in a vacuum after surface purification processing of the panel.



## LEGAL STATUS

[Date of request for examination]

16.01.2001

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of